

ABSTRACT

The present invention discloses a complex of clay and polyoxyalkylene amine grafted polypropylene and a method for producing the same. The clay in the present invention is formed by modifying 5 inorganic layered silicate clay with an amphibious intercalating agent obtained by polymerizing polyoxyalkylene amine having molecular weight over 1,800 and polypropylene-grafting-maleic anhydride (PP-g-MA). The method for producing the complex is primarily to polymerize the polyoxyalkylene diamine having molecular weight over 1,800 and 10 polypropylene- grafting-maleic anhydride (PP-g-MA) to form an amphibious intercalating agent, which is then acidified with an inorganic acid, and mixed with the swelled clay by powerfully stirring at 60-80°C for cation exchanging to obtain the titled complex. According to the present invention, the complex is an excellent surfactant and a reinforcing 15 agent of polymers.